



10-552388\_ST25  
SEQUENCE LISTING

<110> Ross, Richard  
Sayers, Jon  
Artymiuk, Peter

<120> Cytokine Polypeptides and Antibodies Containing A Signal  
Sequence for the Attachment of Glycosylphosphatidyinositol

<130> 100042.59316US

<140> 10/552,388  
<141> 2005-10-07

<150> PCT/GB04/001572  
<151> 2004-04-07

<150> GB 0324235.1  
<151> 2003-10-16

<150> GB 0308088.4  
<151> 2003-04-09

<160> 29

<170> PatentIn version 3.5

<210> 1  
<211> 794  
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<220>  
<223> fusion protein comprising growth hormone fused to domain  
comprising glycosylphosphatidyinositol

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acaacgctag tctccgcgcc catcgtctgc accagctggc ctttgacacc taccaggagt 180  
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<210> 2  
<211> 254

10-552388\_ST25

<212> PRT

<213> Artificial Sequence

<220>

<223> fusion protein comprising growth hormone fused to a glycosylphosphatidylinositol domain

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Asp Ala His Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn  
20 25 30

Ala Ser Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr  
35 40 45

Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe  
50 55 60

Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr  
65 70 75 80

Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu  
85 90 95

Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe  
100 105 110

Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser  
115 120 125

Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu  
130 135 140

Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys  
145 150 155 160

Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu  
165 170 175

Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys  
180 185 190

Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser  
195 200 205

Cys Gly Phe Gly Gly Gly Gly Asp Ile Asp Lys Leu Val Lys Cys Gly  
210 215 220

Gly Ile Ser Leu Leu Val Gln Asn Thr Ser Trp Met Leu Leu Leu Leu  
225 230 235 240

## 10-552388\_ST25

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<210> 3  
 <211> 1607  
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 <223> fusion protein comprising growth hormone fused to growth hormone receptor

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 tgggtcaagtg tggcggcata agcctgctgg ttcagaacac atcctggatg ctgctgctgc 1560  
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10-552388\_ST25

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 <211> 525  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> fusion protein comprising growth hormone fused to growth hormone receptor

<400> 4

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 1 5 10 15

Asp Ala His Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn  
 20 25 30

Ala Ser Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr  
 35 40 45

Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe  
 50 55 60

Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr  
 65 70 75 80

Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu  
 85 90 95

Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe  
 100 105 110

Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser  
 115 120 125

Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu  
 130 135 140

Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys  
 145 150 155 160

Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu  
 165 170 175

Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys  
 180 185 190

Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser  
 195 200 205

Cys Gly Phe Gly Gly Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 210 215 220

10-552388\_ST25

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Phe Phe Ser Gly Ser  
 225 230 235 240  
 Glu Ala Thr Ala Ala Ile Leu Ser Arg Ala Pro Trp Ser Leu Gln Ser  
 245 250 255  
 Val Asn Pro Gly Leu Lys Thr Asn Ser Ser Lys Glu Pro Lys Phe Thr  
 260 265 270  
 Lys Cys Arg Ser Pro Glu Arg Glu Thr Phe Ser Cys His Trp Thr Asp  
 275 280 285  
 Glu Val His His Gly Thr Lys Asn Leu Gly Pro Ile Gln Leu Phe Tyr  
 290 295 300  
 Thr Arg Arg Asn Thr Gln Glu Trp Thr Gln Glu Trp Lys Glu Cys Pro  
 305 310 315 320  
 Asp Tyr Val Ser Ala Gly Glu Asn Ser Cys Tyr Phe Asn Ser Ser Phe  
 325 330 335  
 Thr Ser Ile Trp Ile Pro Tyr Cys Ile Lys Leu Thr Ser Asn Gly Gly  
 340 345 350  
 Thr Val Asp Glu Lys Cys Phe Ser Val Asp Glu Ile Val Gln Pro Asp  
 355 360 365  
 Pro Pro Ile Ala Leu Asn Trp Thr Leu Leu Asn Val Ser Leu Thr Gly  
 370 375 380  
 Ile His Ala Asp Ile Gln Val Arg Trp Glu Ala Pro Arg Asn Ala Asp  
 385 390 395 400  
 Ile Gln Lys Gly Trp Met Val Leu Glu Tyr Glu Leu Gln Tyr Lys Glu  
 405 410 415  
 Val Asn Glu Thr Lys Trp Lys Met Met Asp Pro Ile Leu Thr Thr Ser  
 420 425 430  
 Val Pro Val Tyr Ser Leu Lys Val Asp Lys Glu Tyr Glu Val Arg Val  
 435 440 445  
 Arg Ser Lys Gln Arg Asn Ser Gly Asn Tyr Gly Glu Phe Ser Glu Val  
 450 455 460  
 Leu Tyr Val Thr Leu Pro Gln Met Ser Gln Phe Thr Cys Glu Glu Asp  
 465 470 475 480  
 Phe Tyr Gly Gly Gly Gly Asp Ile Asp Lys Leu Val Lys Cys Gly Gly  
 485 490 495

10-552388\_ST25

Ile Ser Leu Leu Val Gln Asn Thr Ser Trp Met Leu Leu Leu Leu Leu  
500 505 510

Ser Leu Ser Leu Leu Gln Ala Leu Asp Phe Ile Ser Leu  
515 520 525

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<223> fusion protein comprising growth hormone fused to growth hormone

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acaacgctag tctccgcgcc catcgtctgc accagctggc ctttgacacc taccaggagt 180  
ttgaagaagc ctatatccca aaggaacaga agtattcatt cctgcagaac cccagacct 240  
ccctctgttt ctcagagtct attccgacac cctccaacag ggaggaaaca caacagaaat 300  
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agttcctcag gagtgtcttc gccaacagcc tgggtgtacgg cgctcttgac agcaacgtct 420  
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<210> 6  
 <211> 470  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> fusion protein comprising growth hormone fused to growth hormone

<400> 6

Met Asp Leu Trp Gln Leu Leu Leu Thr Leu Ala Leu Ala Gly Ser Ser  
 1 5 10 15

Asp Ala His Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn  
 20 25 30

Ala Ser Leu Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr  
 35 40 45

Gln Glu Phe Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe  
 50 55 60

Leu Gln Asn Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr  
 65 70 75 80

Pro Ser Asn Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu  
 85 90 95

Arg Ile Ser Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe  
 100 105 110

Leu Arg Ser Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser  
 115 120 125

Asn Val Tyr Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu  
 130 135 140

Met Gly Arg Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys  
 145 150 155 160

Gln Thr Tyr Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu  
 165 170 175

Leu Lys Asn Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys  
 180 185 190

Val Glu Thr Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser  
 195 200 205

Cys Gly Phe Gly Gly Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 210 215 220

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Phe Phe Pro Thr Ile  
 Page 7





10-552388\_ST25

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 <223> growth hormone receptor primer  
 <400> 7  
 gcgcggatcc tctagactcg aggtcctac 29

<210> 8  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> growth hormone receptor primer  
 <400> 8  
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<210> 9  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer amplification of human growth hormone  
 <400> 9  
 gcgccatattg ttcccaacca ttcccttattc 30

<210> 10  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer amplification of human growth hormone  
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<210> 11  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer for linking growth hormone and growth hormone receptor to  
 glycosylphosphatidyinositol domain  
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 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 12  
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Pro Thr Ser Thr Pro Glu Glu Thr Glu Ala Pro Ser Ser Ala Thr Thr  
 Page 9

10-552388\_ST25  
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Leu Ile Ser Pro Leu Ser Leu Ile Val Ile Phe Ile Ser Phe Val Leu  
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Leu Ile  
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<210> 13  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 13

Leu Val Pro Arg Gly Ser Ile Glu Gly Arg Gly Thr Ser Ile Thr Ala  
1 5 10 15

Tyr Asn Ser Glu Gly Glu Ser Ala Glu Phe Phe Phe Leu Leu Ile Leu  
20 25 30

Leu Leu Leu Leu Val Leu Val  
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<210> 14  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 14

Thr Ser Ile Thr Ala Tyr Lys Ser Glu Gly Glu Ser Ala Glu Phe Phe  
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Phe Leu Leu Ile Leu Leu Leu Leu Val Leu  
20 25

<210> 15  
<211> 5  
<212> DNA  
<213> Artificial sequence

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<223> linker peptide for linking growth hormone with growth hormone  
receptor

<400> 15  
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5

<210> 16  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 16

Leu Val Pro Arg Gly Ser  
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<210> 17  
 <211> 5  
 <212> PRT  
 <213> Homo Sapiens

<400> 17

Ser Gly Gly Gly Gly  
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<210> 18  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 18

Pro Gly Ile Ser Gly Gly Gly Gly Gly Gly  
 1 5 10

<210> 19  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 19

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<210> 20  
 <211> 15  
 <212> PRT  
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<220>  
 <223> cleavage sequence

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 <212> DNA  
 <213> homo sapiens

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 <212> PRT  
 <213> Homo sapiens

<400> 22

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Asp Ala His Met  
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<212> DNA  
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aagtattcat tcctgcagaa cccccagacc tccctctggt tctcagagtc tattccgaca 180  
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ctgctcatcc agtcgtggct ggagcccgtg cagttcctca ggagtgtctt cgccaacagc 300  
ctggtgtacg gcgcctctga cagcaacgct tatgacctcc taaaggacct agaggaaggc 360  
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cagacctaca gcaagttcga cacaactca cacaacgat acgcactact caagaactac 480  
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<212> PRT  
<213> Homo Sapiens

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Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro  
35 40 45  
Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg  
50 55 60  
Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu  
65 70 75 80  
Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val  
85 90 95  
Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp  
100 105 110  
Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu  
115 120 125

10-552388\_ST25

Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser  
130 135 140

Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr  
145 150 155 160

Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe  
165 170 175

Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
180 185 190

<210> 25  
<211> 132  
<212> DNA  
<213> Homo sapiens

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aacacatcct ggatgctgct gctgctgctt tccctctccc tcctccaagc cctagacttc 120  
atttctctgt ga 132

<210> 26  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 26  
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Thr Ser Trp Met Leu Leu Leu Leu Leu Ser Leu Ser Leu Leu Gln Ala  
20 25 30

Leu Asp Phe Ile Ser Leu  
35

<210> 27  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> linker sequence between promoter and initiation codon

<400> 27  
ggatcctcta gactcgaggt cctacaggt 29

<210> 28  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Linker between GH protein and GPI anchor

<400> 28  
ggcgggtggag gggat

15

<210> 29  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Linker between GH protein and GPI anchor

<400> 29

Gly Gly Gly Gly Asp  
1 5